(STOP) READ THIS FIRST

Installation and Startup Guide

"D3" Differential Pressure & Level Transmitter

Version 1.0 Document 10022



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SENSOR WIRING

To facilitate electrical connections the D3 transmitter will be provided with either a 5 pin M12 quick disconnect receptacle, a M16 thread cable gland, or a ½" NPTF threaded adaptor. Shielded cable is recommended. See manual for additional detail.

PRODUCT DESCRIPTION

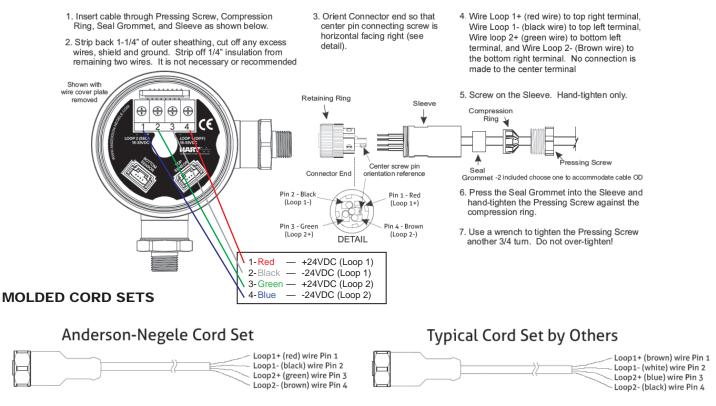
programming easy by directly aligning to the Hart DD menu structure. The

field repairable and reconfigurable design allows the user to change the display orientation, add a remote cable, or replace a component in the field without impact

Field wireable connectors or molded cordsets are available as accessories from Anderson-Negele.

to accuracy.

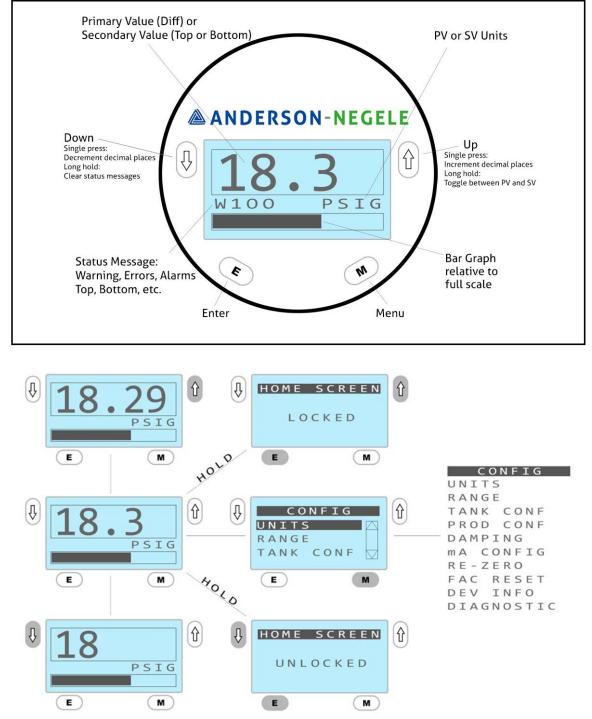
FIELD WIREABLE CONNECTOR ASSEMBLY - ORDERED AS ACCESSORY



USER INTERFACE GUIDE

The D3 transmitter may be configured via the onboard 4 button display or through Hart communication. This section will describe configuration through the onboard display.

Configuration menus are shown graphically in the manual along with the resulting actions from pressing any of the buttons.



Pressing "M" will display menu.

Pressing "E" will temporarily display an explanation of the numerical status message.

Pressing "Down" or "Up" will decrement or increment decimal places of PV or SV.

Pressing "E" and "Up" will lock the home screen. Menu cannot be accessed when home screen is locked. Pressing "E" and "Down" will unlock the home screen.

Pressing and holding "Down" will clear warning messages.

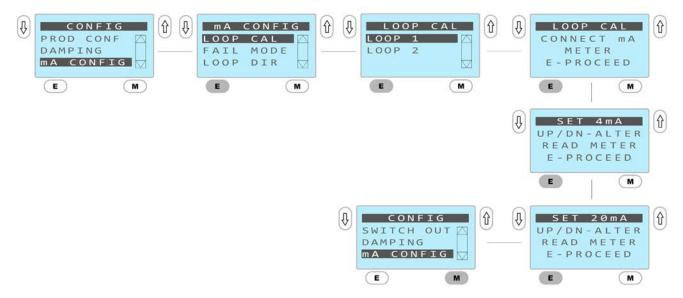
Pressing and holding "Up" will toggle between PV and SV.

mA Calibration

When a transmitter is added to a system for the first time a mA calibration should be performed to ensure the sensor's 4mA and 20mA points align with the control system in which it is installed. Because input cards are variable this will provide the best results and avoid programming an offset in the PLC.

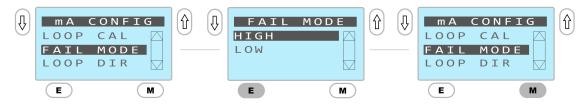
The mA calibration requires the device to be installed in a control loop where the mA value may be read or observed by the operator and the display may also be accessed.

The mA calibration needs to be performed for both Loop1 and Loop2



Failure Mode Selection

The D3 may be set to fail low (3.8mA output) or fail high (20.2mA output) when a valid process variable cannot be output.

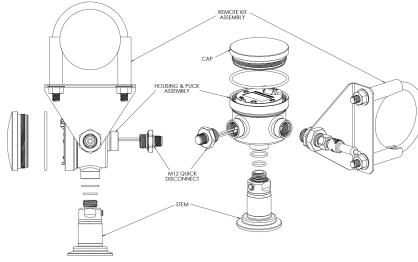


Re-zero

The D3 transmitter is sensitive to both orientation and clamping forces during installation. It is important to re-zero the sensor after it has been installed. Additionally, if the diaphragm is dented or goes through a period of stress such as being steamed for the first time, it is important to re-zero the sensor.

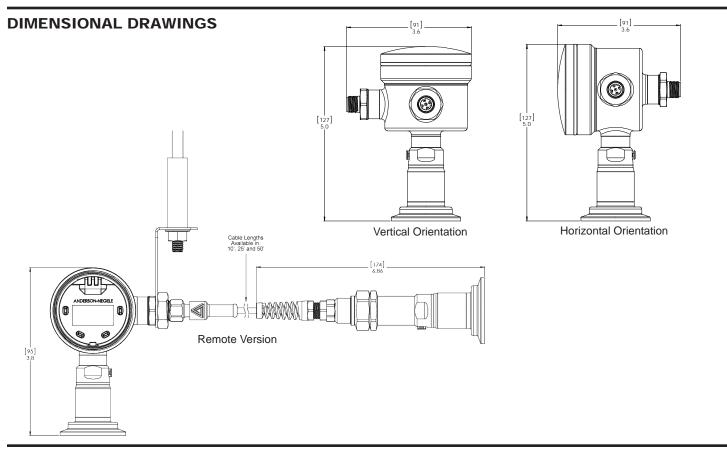


EXPLODED VIEW



ACCESSORIES

<u>Cord Sets</u> Shielded Molded w/25' cable Shielded Molded w/50' cable Shielded Molded w/100' cable	42117H0025 42117H0050 42117H0100
Clear Cap w/gaskets Stainless Steel Cap w/gaskets M12 Quick Disconnect Receptacle Cord Grip 1/2" NPTF adaptor Seal Kit (6) gaskets Field Wireable Connector-Straight Field Wireable Connector-90° 10' Remote Kit 25' Remote Kit 50' Remote Kit Rosemount/Foxboro Clamp Connection	56328P0001 56329P0001 SP56726A0004 SP5633100000 5633000001 42119B0000 42119A0000 SP73228A0010 SP73228A0010 SP73228A0050 46600A00010



Warnings



This unit accepts DC voltage only, connection to AC voltage can cause failure of the sensor and/or risk of electrocution



Do not remove this sensor from the process while it is operating. Removal while the process is operating can contaminate the process and could cause human injury.



Before removing for service or calibration, ensure that residual product has been flushed from the line and that internal pressure has returned to atmospheric pressure.